

Patent Abstracts of Japan

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APPLICANT : ZENEKA KK;

INVENTOR : YONEDA TATSU;

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TITLE : PRODUCTION OF ANTIMICROBIAL FIBER OR TEXTILE PRODUCT

ABSTRACT : PURPOSE: To obtain antimicrobial fibers or a textile product therefrom, excellent in washing resistance by imparting fibers or a product therefrom with a finishing liquid agent containing a water-soluble polyhexamethylenebiguanide-based compound, aqueous water-soluble resin dispersion(s) and crosslinking agent(s).

CONSTITUTION: First, a finishing liquid agent is prepared by mixing water with a water-soluble polyhexamethylenebiguanide-based antibacterial agent, at least one kind of aqueous dispersion selected from those of polyvinyl alcohol and its copolymers, polyallylamine and its copolymers, diallylamine derivative polymers and copolymers, polyvinylpyrrolidone and its copolymers, water-soluble nylons and polyester resins (pref. aqueous dispersion of polyvinyl alcohol or its copolymer), and at least one kind of crosslinking agent crosslinkable with the above substances) selected from epoxy compounds, aziridine-based compounds and blocked isocyanate compounds (pref. epoxy compound). Next, fibers or a textile product therefrom is immersed in this agent followed by dehydration, drying and then heat treatment, thus imparting the fibers or the textile product with microbe-proofness.

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Citations from Patent Abstracts of Japan: PAJ

1. NDN 043-0052-3228-1: PRODUCTION OF ANTIMICROBIAL FIBER OR TEXTILE PRODUCT PUBLICATION NUMBER- 08226077 JP

Citations from PATENT ABSTRACTS OF JAPAN: PJ2

2. NDN 075-0329-8969-1: GUANIDINE GROUP-CONTAINING POLYMER AND PRODUCTION THEREOF PUBLICATION NUMBER- 62230806 JP

Citations from Patent Abstracts of Japan: PAJ

1. PRODUCTION OF ANTIMICROBIAL FIBER OR TEXTILE PRODUCT
PAJ 01-01-96 08226077 JP NDN- 043-0052-3228-1



INVENTOR(S)- YONEDA, TATSU

PATENT APPLICATION NUMBER- 07070317**DATE FILED-** 1995-02-21**PUBLICATION NUMBER-** 08226077 JP**DOCUMENT TYPE-** A**PUBLICATION DATE-** 1996-09-03**INTERNATIONAL PATENT CLASS-** D06M013322; A01N04744; C07C27900; D06M015333; D06M01555**APPLICANT(S)-** ZENEKA KK**PUBLICATION COUNTRY-** Japan

PURPOSE: To obtain antimicrobial fibers or a textile product therefrom, excellent in washing resistance by imparting fibers or a product therefrom with a finishing liquid agent containing a water-soluble polyhexamethylenbiguanide-based compound, aqueous water-soluble resin dispersion(s) and crosslinking agent(s).

CONSTITUTION: First, a finishing liquid agent is prepared by mixing water with a water-soluble polyhexamethylenbiguanide-based antibacterial agent, at least one kind of aqueous dispersion selected from those of polyvinyl alcohol and its copolymers, polyallylamine and its copolymers, diallylamine derivative polymers and copolymers, polyvinylpyrrolidone and its copolymers, water-soluble nylons and polyester resins (pref. aqueous dispersion of polyvinyl alcohol or its copolymer), and at least one kind of crosslinking agent crosslinkable with the above substances) selected from epoxy compounds, aziridine-based compounds and blocked isocyanate (pref. epoxy compound). Next, fibers or a textile product therefrom is immersed in this agent followed by dehydration, drying and then heat treatment, thus imparting the fibers or the textile product with microbe-proofness.

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Citations from PATENT ABSTRACTS OF JAPAN: PJ2

2. GUANIDINE GROUP-CONTAINING POLYMER AND PRODUCTION THEREOF

PAJ 00-28-76 62230806 JP **NDN-** 075-0329-8969-1**INVENTOR(S)-** HAYASHI, IKUO; SHIMIZU, SEI; HARADA, TORU**PATENT APPLICATION NUMBER-** 61073824**DATE FILED-** 1986-03-31**PUBLICATION NUMBER-** 62230806 JP**DOCUMENT TYPE-** A**PUBLICATION DATE-** 1987-10-09**INTERNATIONAL PATENT CLASS-** C08F22602; A01N04744; C08F00844; C08F22602**APPLICANT(S)-** NITTO BOSEKI CO LTD**PUBLICATION COUNTRY-** Japan

PURPOSE: To industrially and advantageously produce a novel polymer useful as a germicide, high-polymer medicine, paper treating agent, flocculant, etc., at a low cost, by polymerizing a specific guanidine derivative in the presence of a polymerization initiator.

CONSTITUTION: A guanidine group-containing polymer, obtained by polymerizing a guanidine derivative expressed by formula I ($R^{(1)}$ and $R^{(2)}$ are H, 1W18C alkyl, alkoxy-carbonylalkylene, alkylencarboxylic acid or 6W8C aryl; X is inorganic or organic group) alone or together with an allylamine expressed by formula II in the presence of a polymerization initiator having azo group and nitrogen-atom-containing group which is cationic or capable of forming cation in the molecule, e.g. 2,2'-diamidiny-2,2'-azopropane hydrochloride, etc., and, as necessary, reacting the resultant polymer with an acid and containing guanidine group expressed by formula III (Y may be absent and indicates acid; $m > 10$; $0 < j$ (less than 1)).

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